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GRAY SCALE DOCUMENTS

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s will not correct images, ort the images to the sblem Mailbox.

(SEQ

NO:69),

NO:71),

NO:73),

NO:75),

the

(SEQ

(SEQ

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(SEO ID

ID

ID

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at

NO:61), IIYSFANIS (SEQ ID NO:62), LKTLLSVGG

NO:68),

NO:70),

NO:72),

Peptides consisting of 16 to 55 amino acid residues, said

NO:63), FIKSVPPFL (SEQ ID NO:64), FDGLDLAWL (SEQ ID NO:

65), LYPGRRDKQ (SEQ ID NO:66), YDIAKISQH (SEQ ID NO:67),

NO:74), YLKDRQLAG

least one of

(SEQ ID NO:60), FLCTHIIYS

FISIMTYDF

YAVGYMLRL

LAYYEICDF

(SEQ ID NO:76), VWALDLDDF (SEQ ID NO:77) or

CLAIMS

peptide comprising

sequences LACYYTSWS

(SEQ

(SEO

(SEQ

(SEQ

ID

ID

ID

ID

LDFISIMTY

FRGQEDASP

MLRLGAPAS

LRGATVHRT

LAGAMVWAL

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LDLDDFQCS (SEQ ID NO:78). of 16 to 55 amino acid residues, said peptide comprising at least one of the amino sequences YKLVCYYTSWSQYREG (SEQ ID NO:1), YTSWSQYREGDGSCFP (SEO ID NO:2), LDRFLCTHIIYSFANI (SEQ ID NO:5), THIIYSFANISNDHID (SEQ ID NO:6), PNLKTLLSVGGWNFGS (SEQ ID NO:12), NTQSRRTFIKSVRPFL (SEQ ID NO:16), TFIKSVPPFLRTHGFD (SEO NO:17), PRFLRTHGFDGLDLAW (SEQ ID NO:18), HGFDGLDLAWLYPGRR (SEQ IN NO:19), DLAWLYPGRRDKQHFT (SEQ ID NO:20), TIDSSYDIAKISQHLD \(SEQ ID NO:28), DIAKISQHLDFISIMT (SEO ID NO:29), QHLDF1 SIMTYDFHGA (SEQ ID NO:30), SPLFRGQEDASPDRFS (SEQ ID NO: 34), DYAVGYMLRLGAPASK (SEO ID NO:37), MLRLGAPASKLVMGIP (SEQ\ID NO:38), PASKLVMGIPTFGRSF GTLAYYEICDFLRGAT (SEQ ID NO:46), (SEO ID NO:39), EICDFLRGATVHRTLG (SEQ ID NO:47), RGATVHRTLGQQVPYA (SEQ ID NO:48), VKSKVQYLKDRQLAGA (SEQ ID NO:53), YLKDRQLAGAMVWALD (SEQ ID NO:54), LAGAMVWALDLDDFQG (SEQ ID NO:55),

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WALDLDDFQGSFCGQD (SEQ ID NO:56) DFQGSFCGQDLRFPLT (SEO ID NO:57).

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he restile according to claim 1 or 2, said peptide comprising at least one of the amiho acid sequences YKLVCYYTSWSOYREG YTSW\$QYREGDGSCFP (SEQ NO:1), LDRFLCTHIIYSFANI (SEQ ID WO:5) THIIYSFANISNDHID (SEQ ID NO:6), PNLKTLLSVGGWNFGS (SEQ ID NO:12), QHLDFISIMTYDFHGA NO:30), SPLFRGQEDASPDRFS ID NO:34), (SEQ DYAVGYMLRLGAPASK (SEQ ID NO:3V), MLRLGAPASKLVMGIP (SEQ ID NO:38) YLKDRQLAGAMVWALD SEQ ID NO:54)

LAGAMVWALDLDDFQG (SEQ ID NO 55) N

de according to any of claims 1 to 3, said peptide comprising at least one of the \amino acid sequences YTSWSQYREGDGSCFP (SEQ ID NO:2), SPI)FRGQEDASPDRFS (SEQ ID NO:34), MLRLGAPASKLVMGIP (SEQ ID NO:38), YLKDRQLAGAMVWALD

(SEQ ID NO:54) or LAGAMVWALDLDDFQG (SEQ ID NO:55)

Mexadecapeptide according to claim hexadecapeptide consisting of one of the sequences YKLVCYYTSWSQYREG (SEQ ID NO:1) YTSWSQYREGDGSCFP DORFLCTHIIYSFANI NO:2), (SEQ THIIYSFANISNDHID (SEQ ID NO.6), PNLKTLLSVGGWNFGS (SEQ ID NO:12), QHLDFISIMTYDFHGA (SEQ ID NO:30), SPLFRGQEDASPDRFS DYAVGYMLRLGAPASK (SEQ ID NO:37). NO:34), MLRLGAPASKLVMGIP (SEQ ID NO:38), YLKDRQLAGAMVWALD (SEQ ID 'NO:54) or LAGAMVWALDLDDFQG (SEQ ID NO:55

Peptide according to any of the claims 1 to [medical substance

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7. Pharmaceatical composition comprising one or more peptides according to any of the claims 1 to 5, and a Charmaceutical acceptable carrier.

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autoreactive T cells comprising the following steps: a) isolation of the peripheral blood mononuclear cells (PBMC) from a blood sample of an individual, b) culture of said PBMC under suitable conditions, c) incubation of said PBMC culture in the presence of one or more peptides according to any of the claims 1 to 5, and d) detection of a response of T cells, for example a proliferative response, indicating the presence of activated autoreactive T cells in the individual.

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9. Testkit, for the detection of activated autoreactive T cells, said test kit comprising one or more peptides according to any of the claims 1 to 5.

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